

ABSTRACT

The present invention provides a plasma injector
wherein a reducing agent injected from an injection port
5 (19) at the distal end portion of an injection nozzle
(18) is at least partially converted into a plasma; an
exhaust gas purifying system; and a method for injecting
a reducing agent. Using the plasma injector, the exhaust
gas purifying system, and the method for injecting a
10 reducing gas of the present invention, it is possible to
vaporize a reducing agent supplied in an injection manner
and/or to provide a highly reactive reducing agent from
the reducing agent.